

CLAIMS**WHAT IS CLAIMED IS:**

1. A fluorine-containing ethylene copolymer composition comprising:  
the product of the reaction between an ethylene/glycidyl  
5 (meth)acrylate copolymer and a fluorine-containing carboxylic acid.
2. A fluorine-containing ethylene copolymer composition comprising:  
the product of the reaction between an ethylene/glycidyl  
(meth)acrylate copolymer and a perfluorinated carboxylic acid,  
characterized in that the copolymer absorbs light in the region of  
10 from about 1750 cm<sup>-1</sup> to about 1800 cm<sup>-1</sup> of the infra red absorption  
spectrum.
3. A blend comprising at least two thermoplastic materials wherein at  
least one is a fluorine-containing ethylene copolymer composition  
comprising the product of the reaction between an ethylene/glycidyl  
15 (meth)acrylate copolymer and a fluorine-containing carboxylic acid.
4. A blend comprising at least two thermoplastic materials wherein at  
least one is a fluorine-containing ethylene copolymer composition  
comprising the product of the reaction between an ethylene/glycidyl  
(meth)acrylate copolymer and a fluorine-containing carboxylic acid,  
20 characterized in that the copolymer absorbs light in the region of  
from about 1750 cm<sup>-1</sup> to about 1800 cm<sup>-1</sup> of the infra red absorption  
spectrum.
5. An article having a surface with a total surface energy of less than  
25 dyne/cm comprising: a fluorine-containing ethylene copolymer  
25 composition comprising the product of the reaction between an  
ethylene/glycidyl (meth)acrylate copolymer and a fluorine-  
containing carboxylic acid.
6. An article having a surface with a total surface energy of less than  
25 dyne/cm comprising: a fluorine-containing ethylene copolymer  
30 composition comprising the product of the reaction between an  
ethylene/glycidyl (meth)acrylate copolymer and a fluorine-  
containing carboxylic acid, characterized in that the copolymer  
absorbs light in the region of from about 1750 cm<sup>-1</sup> to about 1800  
cm<sup>-1</sup> of the infra red absorption spectrum.
- 35 7. A stain-resistant fiber comprising a fluorine-containing ethylene  
copolymer composition comprising the product of the reaction

between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid.

8. A stain-resistant fiber comprising a fluorine-containing ethylene copolymer composition comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid, characterized in that the copolymer absorbs light in the region of from about 1750  $\text{cm}^{-1}$  to about 1800  $\text{cm}^{-1}$  of the infra red absorption spectrum.

9. An article formed by injection molding or by extrusion comprising a fluorine-containing ethylene copolymer composition comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid.

10. An article formed by injection molding or by extrusion comprising a fluorine-containing ethylene copolymer composition comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid, characterized in that the copolymer absorbs light in the region of from about 1750  $\text{cm}^{-1}$  to about 1800  $\text{cm}^{-1}$  of the infra red absorption spectrum.

11. A mold release additive comprising a fluorine-containing ethylene copolymer composition comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid.

12. A mold release additive comprising a fluorine-containing ethylene copolymer composition comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid, characterized in that the copolymer absorbs light in the region of from about 1750  $\text{cm}^{-1}$  to about 1800  $\text{cm}^{-1}$  of the infra red absorption spectrum.